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Rojano, Teresa; García-Campos, Montserrat

Teaching mathematics with an intelligent support: a study with parametrized modeling activities.

Amado, Nélia (ed.) et al., Proceedings of the 12th international conference on technology in mathematics teaching, ICTMT 12. Faro: University of Algarve (ISBN 978-989-8472-68-7). 156-163 (2015).

Summary: We report outcomes from a study that aims to investigate the role of feedback, by way of an intelligent support system, in parameterized modeling activities carried out by a group of tertiary education students. With such a system it is possible to simultaneously display on a computer screen a chat window and a window with a microworld, dynamically hot-linked to each other. While users work in the microworld, they can enter into dialogue with the system in natural language. In this paper we discuss the case of one pair of participant students, for whom the feedback provided by the intelligent support and by the microworld at key moments of the modeling activities were crucial for them to be able to build up a spreadsheet model and consequently, for their understanding of the long-term behavior of the phenomenon being modeled.

Classification: U75 M65
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